

tyco
Electronics

MACOM
Automotive Telematics



Part No. MAANIN0055

Automotive Roof Mount Sirius Satellite Digital Radio Antenna

Shape	Elliptical base, low-profile contoured radome	
Dimensions	3.0" wide x 4.5" long x 1.56" high	
Cable Protector Length	6"	
Weight	4 ounces	
Color	Black	
Radome Material	UV, Ozone, Solar stable material	
Output Connectors	2 x FAKRA (color coded) SMB ¹	
Cable	2 x 15', 0.070" dia. low-loss coaxial	
Materials	Corrosion resistant	
Base Construction	Die cast zinc	
Mounting	Roof mount w/ adhesive strips or roof thru-hole	
Environmental		
Operating Temperature	-40°C to +85°C	
Operating Humidity	5 to 95% RH (rain resistant)	
Storage Temperature	-45°C to +95°C	
Chemical Resistance	Oil, gasoline, detergents	
Salt	5% NaCl @ 35°C	
Electrostatic Discharge	RC Surge protection on PCB	
Electrical		
	Satellite	Terrestrial
Frequency	2320.0 to 2332.5 MHz	2323.7 to 2328.8 MHz
Antenna Element Gain, Passive	See below ²	-2 to +2 dBi ³
Polarization	LHCP	Linear Vertical
Output VSWR	2.0:1 max	2.0:1 max
LNA Gain	33.5 dB min, 38.5 dB max	25 dB min, 30.5 dB max
LNA Noise Figure	0.7 dB typ, 0.9 dB max	2 dB typ, 2.5 dB max
Compression @ L1	+16 dBm min @ LNA output	+9 dBm min @ LNA output
Voltage	+5.3 to +8.0 VDC	+5.3 to +8.0 VDC
Current	160 mA typ	

¹ Sat keycode K, curly; Terr keycode Z, white/natural

² 2 dBi min from 20° to 90° above horizon;

³ 3 dBi min from 25° to 75° above horizon

³ From 0° (horizon) to 10° above horizon